



CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Adopt Resolution Amending Traffic Resolution to Adopt Guild Avenue Speed Limit Modifications

MEETING DATE: April 3, 2002

PREPARED BY: Public Works Director

RECOMMENDED ACTION: That the City Council adopt a resolution amending Traffic Resolution #97-148 by approving the speed limit modifications described below and shown on **Exhibit A**.

BACKGROUND INFORMATION: Per Section 40802(b) of the California Vehicle Code, Engineering and Traffic Surveys must be updated a minimum of every five years on "non-local" streets. "Non-local" streets are collector and arterial streets included in the Federal Aid System. Speed limits on streets where surveys are older than five years cannot be enforced using radar.

Engineering and Traffic Surveys are performed using State of California Department of Transportation (Caltrans) guidelines. The surveys include a map showing the street and physical characteristics of the roadway, such as roadway width, number of through lanes, and traffic controls. Traffic volumes, prevailing speeds, and accidents are analyzed and the results are provided in a written narrative for each street. Accident rates, determined by the number of accidents occurring within a segment of roadway along with the traffic volume, are shown in accidents-per-million-vehicle-miles (ACC/MVM). The citywide accident rate is 4.0 ACC/MVM.

Three factors should be considered when determining the speed limit most appropriate to facilitate the orderly and reasonably safe movements of traffic: prevailing speeds, unexpected conditions to drivers, and accident records. Reasonable speeds conform to the actual behavior of the majority of motorists and, by measuring motorists' speeds, one can select a speed limit that is both reasonable and effective. Speed limits should normally be established at the first 5-mile-per-hour (mph) increment below the 85th percentile speed. However, engineering judgement may indicate the need to reduce the speed limit by 5 mph.

In 1997, when the last survey was performed on Guild Avenue, the only portion long enough to survey was from Lodi Avenue to Victor Road. Since that time, the portion south of Lodi was completed to Vine Street and the portion north of Victor Road was annexed into the city. The portion north of Victor Road is posted at 45 mph based on a survey performed by the county. With the exception of the portion north of Victor Road, land use on Guild Avenue is industrial and commercial with improved curbs, gutters, and sidewalks. Guild Avenue north of Victor Road is more rural in appearance, with curb, gutter, and sidewalk only in front of the recently developed industrial site on the east side. The remaining frontage is primarily vacant land with scattered residences.

APPROVED:


H. Dixon Flynn -- City Manager

STUDY RESULTS:

Vine Street to Pine Street

The 85th percentile speeds on this segment range from 40 to 43 mph. The 50th percentile speeds range from 35 to 37 mph. The portion of this segment from Vine Street to Lodi Avenue was completed since the previous survey, performed in 1997. There were no accidents on the existing portions during the 1997 survey. The current accident rate is 0.8, which is substantially below the citywide average. Based on prevailing speeds and low accident rate, we recommend retaining the 40-mph speed limit on the segment from Lodi Avenue to Pine Street, and continuing the 40-mph speed limit south to Vine Street. Staff will also be reviewing the need for reduced advisory speeds on the curved portions of Guild Avenue.

Pine Street to Victor Road

The 85th percentile speeds on this segment are 41 and 42 mph. The 50th percentile speeds are 36 to 37 mph. The accident rate of 1.7 in this segment is below the citywide average and lower than the 4.9 rate from the 1997 survey. Based on prevailing speeds and reduced accident rate at the existing speed limit, we recommend retaining the 40-mph speed limit on this segment.

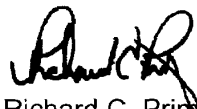
Victor Road to Turner Road

This portion of Cluff Avenue was previously under San Joaquin County's jurisdiction with a posted speed limit of 45 mph. Since being incorporated into the city, there has been some industrial development along a portion of the east side of this segment, with the remainder rural in appearance with a few scattered residences. Turner Road was also extended and connects with Guild Avenue. Due to the recent industrial development on Guild Avenue and existing businesses on Turner Road, truck travel on this portion of Guild Avenue is relatively high (20% of total traffic). Based solely on 85th percentile speeds, the speed limit could be posted at 50 mph; however, due to the mix of residential and industrial uses, high truck traffic, shoulder conditions, and lack of sidewalks, we recommend retaining the 45 mph speed limit on this segment.

RECOMMENDED ACTION: Based on the survey results, the following speed limit changes on Guild Avenue are recommended:

<u>Street Segment</u>	<u>Existing</u>	<u>Proposed</u>
Vine Street to Lodi Avenue	N/A	40 mph
Victor Road to Turner Road	45 mph (county)	45 mph

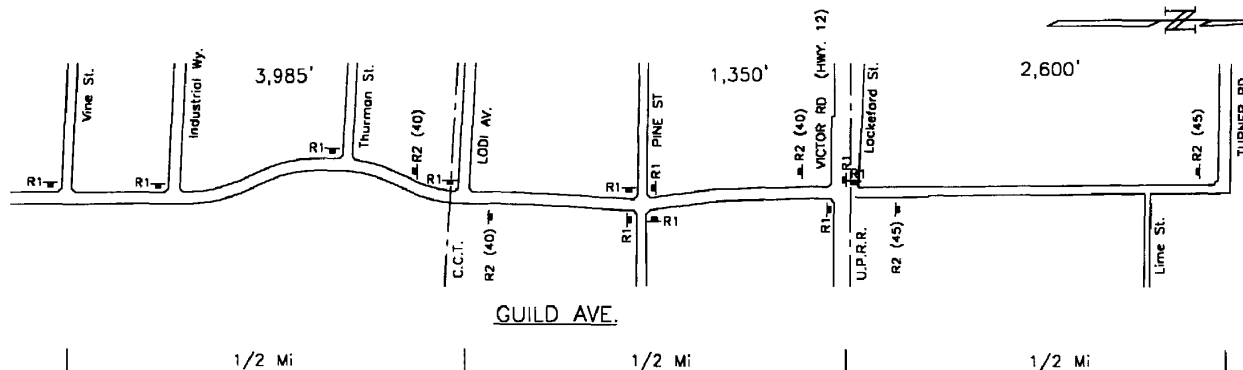
FUNDING: Funding for the speed limit modifications from the Street Maintenance Account at an approximate cost of \$300.



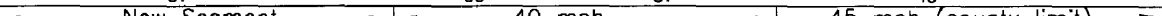



Richard C. Prima, Jr.
Public Works Director

Prepared by Rick S. Kiri, Senior Engineering Technician
RCP/RSK/lm
Attachment
cc: City Attorney
Police Chief
City Engineer
Street Superintendent
Senior Traffic Engineer
Concerned Citizen

SEE NARRATIVE FOR
BACKGROUND INFORMATION



SPEED TABLE						
ROADWAY WIDTH						
NO. OF LANES						
MEDIAN (TYPE)		NONE				
TRAFFIC SIGNAL DATA		N/A				
AVERAGE DAILY TRAFFIC		1,555	(2,220)	2,885	3,100	1,345
OBS. SPEED - CRITICAL, 85th% NB		41	43	43	42	51
	SB	43	40	41	41	51
	- PACE (%) NB	31-41(68)	31-41(58)	31-41(68)	31-41(68)	31-41(44)
	SB	34-44(68)	29-39(69)	33-43(74)	33-43(74)	39-49(51)
	- MEDIAN, 50th% NB	36	37	36	36	42
	SB	37	35	37	37	43
EXISTING SPEED ZONE						
PROPOSED SPEED ZONE						

LEGEND:

- SIGN LOCATION
- R1 — STOP SIGN
- R2 () — SPEED LIMIT SIGN (MPH)
- R1-2 — YIELD SIGN
- C — INSTALLATION C
(SCHOOL, 25 MPH
SIGNS, W65, R2(25),
R72)
- ⊗ — TRAFFIC SIGNAL
- CITY LIMIT
- CRITICAL SPEED
- LOWER LIMIT OF PACE

SPEED GRAPH

MPH

50

40

30

NB

SB

SB

NB

Direction	Feature	MPH
NB	City Limit	30
	Critical Speed	30
	Lower Limit of Pace	30
	Stop Sign (R1)	30
SB	City Limit	30
	Critical Speed	30
	Lower Limit of Pace	30
	Stop Sign (R1)	30

ACCIDENT PLOT	YR: 2000				
	YR: 2001				
ACCIDENT RATE-ACC./MILL. VEH.-MI.		0.8	1.7	0.0	

Dr: EKB/RSK	No.	Date	Revision	Appr	Approved By		CITY OF LODI PUBLIC WORKS DEPARTMENT	GUILD AVE	SPEED ZONE SURVEY
Ch:									
DATE:					City Engineer RCE NO. 39895				

EXHIBIT A

April 2002

SPEED ZONE REPORT - Guild Avenue

- **REFERENCE** - Speed zone surveys are performed in the City of Lodi following State of California Department of Transportation (Caltrans) guidelines in accordance with Section 40802 (b) of the California Vehicle Code. These guidelines are outlined in Chapter 8 of the Caltrans Traffic Manual.
- **STUDY CRITERIA** - Important factors to consider in determining the speed limit which is most appropriate to facilitate the orderly movement of traffic and that is reasonably safe are:

Prevailing Speeds (85th Percentile Speeds) - Reasonable speed limits conform to the actual behavior of the majority of motorists, and by measuring motorists' speeds, one will be able to select a speed limit that is both reasonable and effective. Speed limits should normally be established at the first five mile per hour increment below the 85th percentile speed. However, in matching existing conditions with the traffic safety needs of the community, engineering judgment may indicate the need for a further reduction of five miles per hour.

Unexpected Conditions - When roadside development results in traffic conflicts and unusual conditions which are not readily apparent to drivers, speed limits below the 85th percentile are warranted. The following factors were considered: roadway design speed, safe stopping sight distance, superelevation, shoulder conditions, profile condition, intersection spacing and offsets, commercial & residential driveway characteristics, residential density, and pedestrian & bicycle safety.

Accidents - Accident records of the two most recent years were considered in determining the speed zones. Accidents on segments of roadways are classified by their accident rate. Accident rates are determined by the number of accidents occurring within a segment of roadway and the traffic volume within that segment. Accident rates are shown in accidents per million vehicle miles (ACC/MVM). The accident rate ranged from 0.0 to 1.7 ACC/MVM. The average Citywide accident rate is 4.0 ACC/MVM.

- **STUDY RESULTS**
Eight radar surveys were performed and the 85th percentile speeds ranged from 40 to 51 mph as shown below:

<u>Street Segment</u>	<u>Northbound</u>	<u>Southbound</u>
Vine Street to Pine Street	41 & 43 mph	40 & 43 mph
Pine Street to Victor Road	42 mph	41 mph
Victor Road to Turner Road	51 mph	51 mph

SPEED ZONE REPORT - Guild Avenue

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Vine Street to Pine Street

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Pine Street to Victor Road

The 85th percentile speeds on this segment are 41 and 42 mph. The 50th percentile speeds are 36 to 37 mph. The accident rate of 1.7 in this segment is below the Citywide average and lower than the 4.9 rate from the 1997 survey. Based on prevailing speeds and reduced accident rate at the existing speed limit, we recommend retaining the 40 mph speed limit on this segment.

Victor Road to Turner Road

This portion of Cluff Avenue was previously under San Joaquin County's jurisdiction with a posted speed limit of 45 mph. Since being incorporated into the city, there has been some industrial development along a portion of the east side of this segment, with the remainder rural in appearance with a few scattered residences. Turner Road was also extended east to connect with Guild Avenue. Due to the recent industrial development on Guild Avenue and existing businesses on Turner Road, truck travel on this portion of Guild is relatively high (20% of total traffic). Based solely on 85th percentile speeds, the speed limit could be posted at 50mph; however, due to the mix of residential and industrial uses, high truck traffic, shoulder conditions and lack of sidewalks, we recommend retaining the 45 mph speed limit on this segment.

◦ CONCLUSION

The recommended speed limits are shown below:

<u>STREET SEGMENT</u>	<u>POSTED SPEED LIMIT</u>
Vine Street to Pine Street	40 mph (no change)
Pine Street to Victor Road	40 mph (no change)
Victor Road to Turner Road	45 mph (no change)

F. Wally Sandelin
City Engineer

RESOLUTION NO. 2002-68

A RESOLUTION OF THE LODI CITY COUNCIL APPROVING
SPEED LIMIT MODIFICATIONS ON GUILD AVENUE, AND
THEREBY AMENDING TRAFFIC RESOLUTION NO. 97-148

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WHEREAS, speed zone surveys are performed in the City of Lodi following State of California Department of Transportation (Caltrans) guidelines in accordance with Section 40802(b) of the California Vehicle Code, which are outlined in Chapter 8 of the Caltrans Traffic Manual; and

WHEREAS, per §40802(b) of the California Vehicle Code, Engineering and Traffic Surveys must be updated a minimum of every five years on "non-local" streets. "Non-local" streets are collector and arterial streets included in the Federal Aid System, and speed limits on streets where surveys are older than five years cannot be enforced using radar; and

WHEREAS, the Public Works Department recently performed Engineering and Traffic Surveys on Guild Avenue; and

WHEREAS, staff recommends modifying the speed limit on the following **Guild Avenue Street segments:**

<u>Street Segment</u>	<u>Existing</u>	<u>Proposed</u>
Vine Street to Lodi Avenue	N/A	40 mph
Victor Road to Turner Road	45 mph (County)	45 mph

NOW, THEREFORE, BE IT RESOLVED, that the City Council of the City of Lodi does hereby approve the proposed speed limit modifications on Guild Avenue as shown above; and

BE IT FURTHER RESOLVED, that the City of Lodi Traffic Resolution No. 97-148, Section 7 "Speed Limits" is hereby amended by designating speed limit modifications as shown above.

Dated: April 3, 2002

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I hereby certify that Resolution No. 2002-68 was passed and adopted by the City Council of the City of Lodi in a regular meeting held April 3, 2002, by the following vote:

AYES: COUNCIL MEMBERS – Howard, Land, Nakanishi, and Mayor Pennino

NOES: COUNCIL MEMBERS – None

ABSENT: COUNCIL MEMBERS – Hitchcock

ABSTAIN: COUNCIL MEMBERS – None


SUSAN J. BLACKSTON
City Clerk

CITY COUNCIL

PHILLIP A. PENNINO, Mayor
SUSAN HITCHCOCK
Mayor Pro Tempore
EMILY HOWARD
KEITH LAND
ALAN S. NAKANISHI

CITY OF LODI

PUBLIC WORKS DEPARTMENT

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P.O. BOX 3006
LODI, CALIFORNIA 95241-1910
(209) 333-6706
FAX (209) 333-6710
EMAIL pwdept@lodi.gov
<http://www.lodi.gov>

H. DIXON FLYNN
City Manager
SUSAN J. BLACKSTON
City Clerk
RANDALL A. HAYS
City Attorney
RICHARD C. PRIMA, JR.
Public Works Director

March 28, 2002

Mr. Robert Moreland
775 North Guild Avenue
Lodi, CA 95240

SUBJECT: Adopt Resolution Amending Traffic Resolution to Adopt Guild Avenue
Speed Limit Modifications

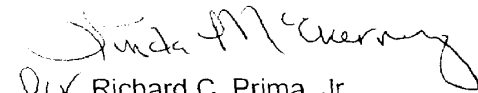
Enclosed is a copy of background information on an item on the City Council
agenda of Wednesday, April 3, 2002. The meeting will be held at 7 p.m. in the
City Council Chamber, Carnegie Forum, 305 West Pine Street.

This item is on the consent calendar and is usually not discussed unless a
Council Member requests discussion. The public is given an opportunity to address
items on the consent calendar at the appropriate time.

If you wish to write to the City Council, please address your letter to City Council,
City of Lodi, P. O. Box 3006, Lodi, California, 95241-1910. Be sure to allow time for the
mail. Or, you may hand-deliver the letter to City Hall, 221 West Pine Street.

If you wish to address the Council at the Council Meeting, be sure to fill out a speaker's
card (available at the Carnegie Forum immediately prior to the start of the meeting) and
give it to the City Clerk. If you have any questions about communicating with the
Council, please contact Susan Blackston, City Clerk, at 333-6702.

If you have any questions about the item itself, please call Rick Kiri, Senior Engineering
Technician, at 333-6800, ext. 2668.


Richard C. Prima, Jr.
Public Works Director

RCP/lm

Enclosure

cc: City Clerk ✓

NCGUILDSPDMODS